PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCH	ING AUTHORITY					
To: PAUL FENSTER FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD.		PCT WRITTEN OPINION OF THE				
P.O.B OX 10256 PETACH TIKVA, ISRAEL	, 49002	INTERNATIO	ONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)	26 APR 2005			
Applicant's or agent's file re	ference	FOR FURTHER ACTION See paragraph 2 below				
110/04075						
International application No.	International filing date (aay/monin/year)	Priority date (day/month/year)			
PCT/IL04/00527	17 June 2004 (17.06.200		17 June 2003 (17.06.2003)			
International Patent Classification (IPC) or both national classification and IPC						
IPC(7): A61F 2/44 and US C Applicant	Cl.: 623/17.16					
	TINOLOCIES INC					
DISC ORTHOPAEDIC TEC	HNOLOGIES INC.					
1. This opinion contains indications relating to the following items:						
Box No. I Basis of the opinion						
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV	Box No. IV Lack of unity of invention					
Box No. V	Reasoned statement under Rule 43his. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI	Box No. VI Certain documents cited					
Box No. VII	Box No. VII Certain defects in the international application					
Box No. VIII	Certain observations on the internation	nal application				
2. FURTHER ACTION	ſ					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of	the ISA/ US	Authorized office	18 KM . M. C. JABeono La-			
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Mesanura, virginia a	SECTO ITHY	L refebrione no. (100) 300-0000			

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

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Box No. I Basis of this opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: type of material a sequence listing table(s) related to the sequence listing format of material in written format in computer readable form time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:

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Be	ox No. IV Lack of unity of invention
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has: paid additional fees paid additional fees under protest not paid additional fees
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
	complied with
	not complied with for the following reasons:
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)
4.	Consequently, this opinion has been established in respect of the following parts of the international application:
	all parts.
	the parts relating to claims Nos. 1,2,4-8 and 10-46

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Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 16, 18-20, and 45	YES
Troversy (14)	Claims 1, 2, 4-8, 10-15, 17, 21-44, and 46	NO
Inventive step (IS)	Claims 16, 19, and 45	YES
	Claims 1, 2, 4-8, 10-15, 17, 18, 20-44, and 46	NO
Industrial applicability (IA)	Claims 1, 2, 4-8, and 10-46	YES
* * * * * * * * * * * * * * * * * * * *	Claims NONE	NO

2. Citations and explanations:

Claims 1, 2, 4-8, 10-15, 17, 21-44, and 46 lack novelty under PCT Article 33(2) as being anticipated by PISHARODI (US 5,693,100). PISHARODI anticipates the claim language where the axial member as claimed is the screw (42) of PISHARODI; see Figures 6-9 and column 3, lines 40-58.

Regarding claim 10, the handle as claimed is the screwdriver of PISHARODI; see column 5, lines 6-9.

Regarding claim 11, the screw (42) can be unscrewed such that the claim language is considered inherently met.

Regarding claim 14, the channel as claimed is the screw thread of PISHARODI.

Regarding claim 23, the axis of rotation could be less than full axial rotation such that the claim language would be fully met if the rotation where slight or if along a radius of the device.

Regarding claim 39, there are inherently differences in the lengths of elements (32) and (34) such that the claim language is inherently met because manufacturing by machining or otherwise cannot result in exactly identical lengths for all similar elements.

Claims 18 and 20 lack an inventive step under PCT Article 33(3) as being obvious over PISHARODI (US 5,693,100) in view of KUSLICH (US 5,059,193). PISHARODI meets the claim language except for the bag around the tube as claimed. However, KUSLICH teaches that it was known to put a bag or covering over similar expandable tubes within the art; see Figures 19-21 and column 9, lines 10-52. Therefore, it is the Examiner's position that it would have been obvious to put a bag or covering over the PISHARODI device for the same reasons that KUSLICH did the same.

Claims 16, 19, and 45 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an axial member that extends from said tube and is adapted to function as a joint (claim 16), a biodegradable bag/covering over the tube (claim 19), or a self-expanding deformer (claim 45).

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 4, 5, 28-31, 34, 35, 38, and 42 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 4, 5, 28-31, 34, 35, 38, and 42 are indefinite for the following reason(s):

Regarding claims 4 and 5, it is unclear what element of claim 1 is being modified.

Regarding claim 28, it is not understood where the axial force is coming from or being applied.

Regarding claims 29-31, the "pliable material" lacks antecedent basis.

Regarding claims 34 and 35, this claim language is not understood because the deformer must occupy 100% of the volume it takes up.

Regarding claim 38, it is not clear how axially displaced leaves can support each other based upon how the present device is disclosed.

Regarding claim 38, line 2, it is unclear why "configurations" is plural and how this language is intended to modify the base claim.

Regarding claim 42, the claim language is not understood based upon the fact that the leaves are in a tube and thus not in a flat or planar device. In other words, it is not clear now the leaves can be deformed from a plane since the tube surface is not planar.

Form PCT/ISA/237 (Box No. VIII) (January 2004)